## IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A modular family of internal combustion engines, wherein:

the family includes at least three engines, each with a different configuration selected from a group comprising single cylinder, V-type, inline, opposed, square, w-type and radial; and

each of the engines includes at least one cylinder, each cylinder of each engine of the family using identical top end component packages, and

two of at least three engines, with different configurations, are each constructed and arranged to power a different recreational vehicle selected from a group comprising snowmobiles, all terrain vehicles, go carts, personal watercraft, boats with outboard motors, boats with inboard engines, motorcycles, scooters, and light aircraft.

2. (Original) A modular family of internal combustion engines as in claim 1, wherein the engines are all overhead valve, four-stroke engines and the top end component package comprises:

at least one exhaust valve, valve seat, valve guide, valve stem seal, valve spring, valve spring retainer and exhaust valve rocker arm; and

at least one intake valve, valve seat, valve guide, valve stem seal, valve spring, valve spring retainer and intake valve rocker arm.

3. (Original) A modular family of internal combustion engines as in claim 2, wherein the top end component package further comprises:

a piston pin;

a small end rod bearing;

a big end rod bearing;

a set of piston rings;

a pair of connecting rod bolts;

a cam chain tensioner;

an exhaust valve hydraulic tappet for each exhaust valve; and

an intake valve hydraulic tappet for each intake valve.

4. (Original) A modular family of internal combustion engines as in claim 3, wherein the top end component package further comprises:

a piston; and

a connecting rod.

5. (Original) A modular family of internal combustion engines as in claim 4, wherein the top end component package further comprises:

a cylinder head; and

a camshaft.

6. (Original) A modular family of combustion engines as in claim 5, wherein the top end component package further comprises:

at least one rocker arm shaft.

- 7. (Original) A modular family of internal combustion engines as in claim 1, wherein the engine configurations comprise at least three from a group comprising: a single cylinder, a V-twin, and an inline twin, and an inline three.
- 8. (Original) A modular family of internal combustion engines as in claim 7, wherein the engine configurations further comprise at least one from a group comprising: a V-six, a V-four and an inline four.

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9. (Currently Amended) An engine from a modular family of internal combustion

engines, comprising:

at least one cylinder; and

a top end component package associated with the at least one cylinder;

wherein the family includes at least three engines, each with a different configuration

selected from a group comprising single cylinder, V-type, inline, opposed, square, w-type and

radial;

wherein each cylinder of each engine of the family uses identical top end component

packages; and

wherein two of the at least three engines, with different configurations, are each

constructed and arranged to power a different recreational vehicle selected from a group

comprising snowmobiles, all terrain vehicles, go carts, personal watercraft, boats with

outboard motors, boats with inboard engines, motorcycles, scooters, and light aircraft.

(Original) An engine from a modular family of internal combustion engines as in 10.

claim 9, wherein all of the engines of the family are overhead valve, four-stroke engines and

the top end component package comprises:

at least one exhaust valve, valve seat, valve guide, valve stem seal, valve spring, valve

spring retainer and exhaust valve rocker arm; and

at least one intake valve, valve seat, valve guide, valve stem seal, valve spring, valve

spring retainer and intake valve rocker arm.

(Original) An engine from a modular family of internal combustion engines as in 11.

claim 10, wherein the top end component package further comprises:

a piston pin;

a small end rod bearing;

a big end rod bearing;

a set of piston rings;

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a pair of connecting rod bolts;

a cam chain tensioner;

an exhaust valve hydraulic tappet for each exhaust valve; and

an intake valve hydraulic tappet for each intake valve.

12. (Original) An engine from a modular family of internal combustion engines as in

claim 11, wherein the top end component package further comprises:

a piston; and

a connecting rod.

13. (Original) An engine from a modular family of internal combustion engines as in

claim 12, wherein the top end component package further comprises:

a cylinder head; and

a camshaft.

14. (Original) An engine from a modular family of internal combustion engines as in

claim 13, wherein the top end component package further comprises:

at least one rocker arm shaft.

15. (Original) An engine from a modular family of internal combustion engines as in

claim 9, wherein the engine configurations comprise at least three from a group comprising:

a single cylinder, a V-twin, and an inline twin, and an inline three.

16. (Original) An engine from a modular family of internal combustion engines as in

claim 15, wherein the engine configurations further comprise at least one from a group

comprising: a V-six, a V-four, and an inline four.

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17. (Currently Amended) A method for manufacturing a modular family of internal

combustion engines, comprising:

designing a single top end component package; and

designing a single cylinder engine and at least two multiple cylinder engines, each of

the multiple cylinder engines having a different configuration selected from a group

comprising V-type, inline, opposed, square, w-type and radial;

wherein each cylinder of each engine of the family uses the same top end component

package designed in the first step; and

wherein two of the engines, with different configurations, are each constructed and

arranged to power at a different recreational vehicle selected from a group comprising

snowmobiles, all terrain vehicles, go carts, personal watercraft, boats with outboard motors,

boats with inboard engines, motorcycles, scooters, and light aircraft.

18. (Original) A method for manufacturing a modular family of internal combustion

engines as in claim 17, wherein all of the engines of the family are overhead valve, four-

stroke engines and the step for designing the top end component package includes designing

the following components of the top end package:

at least one exhaust valve, valve seat, valve guide, valve stem seal, valve spring, valve

spring retainer and exhaust valve rocker arm; and

at least one intake valve, valve seat, valve guide, valve stem seal, valve spring, valve

spring retainer and intake valve rocker arm.

19. (Original) A method for manufacturing a modular family of internal combustion

engines as in claim 18, wherein the step for designing the top end component package

includes designing the further following components of the top end package:

a piston pin;

a small end rod bearing;

a big end rod bearing;

a set of piston rings;

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a pair of connecting rod bolts;

a cam chain tensioner;

an exhaust valve hydraulic tappet for each exhaust valve; and

an intake valve hydraulic tappet for each intake valve.

20. (Original) A method for manufacturing a modular family of internal combustion engines as in claim 19, wherein the step for designing the top end component package includes designing the further following components of the top end package:

a piston; and

a connecting rod.

21. (Original) A method for manufacturing a modular family of internal combustion engines as in claim 20, wherein the step for designing the top end component package includes designing the further following components of the top end package:

a cylinder head; and

a camshaft.

22. (Original) A method for manufacturing a modular family of internal combustion engines as in claim 21, wherein the step for designing the top end component package includes designing:

at least one rocker arm shaft.

23. (Original) A method for manufacturing a modular family of internal combustion engines as in claim 17, wherein the step for designing the single cylinder engine and at least two multiple cylinder engines includes designing at least two of the following engine configurations:

a V-twin, an inline twin, and an inline three.

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24. (Original) A method for manufacturing a modular family of internal combustion

engines as in claim 23, wherein the step for designing the single cylinder engine and at least

two multiple cylinder engines includes further designing at least one of the following engine

configurations:

a V-six, a V-four, and an inline four.

25. (Currently Amended) A method for reducing a number of unique components

required for manufacturing a modular family of internal combustion engines, comprising:

designing a single top end component package;

designing a single cylinder engine and at least two multiple cylinder engines, each of

the multiple cylinder engines having a different configuration selected from a group

comprising V-type, inline, opposed, square, w-type and radial;

wherein, each cylinder of each engine of the family uses the same top end component

package designed in the first step and each component in the top end component package is

designed to comply with the strictest performance requirement for that component in any

application utilizing one of the family of engines; and

wherein two the engines, with different configurations, are each constructed and

arranged to power a different recreational vehicle selected from a group comprising

snowmobiles, all terrain vehicles, go carts, personal watercraft, boats with outboard motors,

boats with inboard engines, motorcycles, scooters, and light aircraft.

26. (Original) A method as in claim 25, wherein all of the engines of the family are

overhead valve, four-stroke engines and the step for designing the top end component

package includes designing the following components of the top end package:

at least one exhaust valve, valve seat, valve guide, valve stem seal, valve spring, valve

spring retainer and exhaust valve rocker arm; and

at least one intake valve, valve seat, valve guide, valve stem seal, valve spring, valve

spring retainer and intake valve rocker arm.

27. (Original) A method as in claim 26, wherein the step for designing the top end component package includes designing the further following components of the top end package:

a piston pin;a small end rod bearing;a big end rod bearing;a set of piston rings;

a pair of connecting rod bolts;

a cam chain tensioner;

an exhaust valve hydraulic tappet for each exhaust valve; and

an intake valve hydraulic tappet for each intake valve.

28. (Original) A method as in claim 27, wherein the step for designing the top end component package includes designing the further following components of the top end package:

a piston; and

a connecting rod.

29. (Original) A method as in claim 28, wherein the step for designing the top end component package includes designing the further following components of the top end package:

a cylinder head; and

a camshaft.

30. (Original) A method as in claim 29, wherein the step for designing the top end component package includes designing:

at least one rocker arm shaft.

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31. (Original) A method as in claim 25, wherein the step for designing the single cylinder

engine and at least two multiple cylinder engines includes designing at least two of the

following engine configurations:

a V-twin, an inline twin, and an inline three.

32. (Original) A method as in claim 31, wherein the step for designing the single cylinder

engine and at least two multiple cylinder engines includes further designing at least one of the

following engine configurations:

a V-six, a V-four, and an inline four.

33. (Currently Amended) One from a family of recreational vehicles incorporating one

from a modular family of internal combustion engines, wherein:

the family of engines includes at least two engines, each with a different configuration

selected from a group comprising single cylinder, V-type, inline, opposed, square, w-type and

radial:

each of the engines includes at least one cylinder, each cylinder of each engine of the

family using identical top end component packages; and

the family of recreational vehicles encompasses at least two different recreational

vehicles selected from a group comprising snowmobiles, all terrain vehicles, go carts,

personal watercraft, boats with outboard motors, boats with inboard engines, motorcycles,

scooters, and light aircraft; and

the at least two engines, with different configurations, are each constructed and

arranged to power one of the at least two different recreational vehicles.

34. (Original) One from a family of recreational vehicles as in claim 33, wherein the

engines are all overhead valve, four-stroke engines and the top end component package

comprises:

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at least one exhaust valve, valve seat, valve guide, valve stem seal, valve spring, valve spring retainer and exhaust valve rocker arm; and

at least one intake valve, valve seat, valve guide, valve stem seal, valve spring, valve spring retainer and intake valve rocker arm.

35. (Original) One from a family of recreational vehicles as in claim 34, wherein the top end component package further comprises:

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a piston pin;
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a small end rod bearing;

a big end rod bearing;

a set of piston rings;

a pair of connecting rod bolts;

a cam chain tensioner;

an exhaust valve hydraulic tappet for each exhaust valve; and

an intake valve hydraulic tappet for each intake valve.

36. (Original) One from a family of recreational vehicles as in claim 35, wherein the top end component package further comprises:

a piston; and

a connecting rod.

37. (Original) One from a family of recreational vehicles as in claim 36, wherein the top end component package further comprises:

a cylinder head; and

a camshaft.

38. (Original) One from a family of recreational vehicles as in claim 37, wherein the top

end component package further comprises:

at least one rocker arm shaft.

39. (Original) One from a family of recreational vehicles as in claim 33, wherein the

engine configurations comprise at least two from a group comprising: a single cylinder, a V-

twin, and an inline twin, and an inline three.

40. (Original) One from a family of recreational vehicles as in claim 39, wherein the

engine configurations further comprise at least one from a group comprising: a V-six, a V-

four and an inline four.

41. (Currently Amended) A family of recreational vehicles sharing a modular family of

internal combustion engines, wherein:

the family of engines includes at least two engines, each with a different configuration

selected from a group comprising single cylinder, V-type, inline, opposed, square, w-type and

radial;

each of the engines includes at least one cylinder, each cylinder of each engine of the

family using identical top end component packages; and

the family of recreational vehicles encompasses at least two different recreational

vehicles selected from a group comprising snowmobiles, all terrain vehicles, go carts,

personal watercraft, boats with outboard motors, boats with inboard engines, motorcycles,

scooters, and light aircraft; and

the at least two engines, with different configurations, are each constructed and

arranged to power one of the at least two different recreational vehicles.

42. (Original) A family of recreational vehicles as in claim 41, wherein the engines are all

overhead valve, four-stroke engines and the top end component package comprises:

at least one exhaust valve, valve seat, valve guide, valve stem seal, valve spring, valve spring retainer and exhaust valve rocker arm; and

at least one intake valve, valve seat, valve guide, valve stem seal, valve spring, valve spring retainer and intake valve rocker arm.

43. (Original) A family of recreational vehicles as in claim 42, wherein the top end component package further comprises:

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a piston pin;
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a small end rod bearing;

a big end rod bearing;

a set of piston rings;

a pair of connecting rod bolts;

a cam chain tensioner;

an exhaust valve hydraulic tappet for each exhaust valve; and

an intake valve hydraulic tappet for each intake valve.

44. (Original) A family of recreational vehicles as in claim 43, wherein the top end component package further comprises:

a piston; and

a connecting rod.

45. (Original) A family of recreational vehicles as in claim 44, wherein the top end component package further comprises:

a cylinder head; and

a camshaft.

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46. (Original) A family of recreational vehicles as in claim 45, wherein the top end

component package further comprises:

at least one rocker arm shaft.

(Original) A family of recreational vehicles as in claim 41, wherein the engine 47.

configurations comprise at least two from a group comprising: a single cylinder, a V-twin,

and an inline twin, and an inline three.

48. (Original) A family of recreational vehicles as in claim 47, wherein the engine

configurations further comprise at least one from a group comprising: a V-six, a V-four and

an inline four.

(Currently Amended) A method for manufacturing one from a family of recreational 49.

vehicles sharing a family of internal combustion engines, comprising:

designing a single top end component package; and

designing two engines, each having a different engine configuration selected from a

group comprising single cylinder, V-type, inline, opposed, square, w-type and radial;

wherein each cylinder of each engine of the family uses the same top end component

package designed in the first step; and

wherein the plurality of recreational vehicle types encompasses at least two from a

group comprising snowmobiles, all terrain vehicles, go carts, personal watercraft, boats with

outboard motors, boats with inboard engines, motorcycles, scooters, and light aircraft; and

the two engines, with different configurations, are each constructed and arranged to

power one of the at least two different recreational vehicle types from the plurality of

recreational vehicle types.

(Original) A method for manufacturing one from a family of recreational vehicles as 50.

in claim 49, wherein all of the engines of the family are overhead valve, four-stroke engines

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and the step for designing the top end component package includes designing the following

components of the top end package:

at least one exhaust valve, valve seat, valve guide, valve stem seal, valve spring, valve

spring retainer and exhaust valve rocker arm; and

at least one intake valve, valve seat, valve guide, valve stem seal, valve spring, valve

spring retainer and intake valve rocker arm.

51. (Original) A method for manufacturing one from a family of recreational vehicles as

in claim 50, wherein the step for designing the top end component package includes

designing the further following components of the top end package:

a piston pin;

a small end rod bearing;

a big end rod bearing;

a set of piston rings;

a pair of connecting rod bolts;

a cam chain tensioner;

an exhaust valve hydraulic tappet for each exhaust valve; and

an intake valve hydraulic tappet for each intake valve.

(Original) A method for manufacturing one from a family of recreational vehicles as 52.

in claim 51, wherein the step for designing the top end component package includes

designing the further following components of the top end package:

a piston; and

a connecting rod.

(Original) A method for manufacturing one from a family of recreational vehicles as 53.

in claim 52, wherein the step for designing the top end component package includes

designing the further following components of the top end package:

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a cylinder head; and

a camshaft.

54. (Original) A method for manufacturing one from a family of recreational vehicles as

in claim 53, wherein the step for designing the top end component package includes

designing:

at least one rocker arm shaft.

(Original) A method for manufacturing one from a family of recreational vehicles as 55.

in claim 49, wherein the step for designing the single cylinder engine and at least two

multiple cylinder engines includes designing at least one of the following engine

configurations:

a V-twin, an inline twin, and an inline three.

56. (Original) A method for manufacturing one from a family of recreational vehicles as

in claim 55, wherein the step for designing the single cylinder engine and at least two

multiple cylinder engines includes further designing at least one of the following engine

configurations:

a V-six, a V-four, and an inline four.

(Currently Amended) A method for manufacturing a family of recreational vehicles 57.

sharing a family of internal combustion engines, comprising:

designing a single top end component package; and

designing two engines, each having a different engine configuration selected from a

group comprising single cylinder, V-type, inline, opposed, square, w-type and radial;

wherein each cylinder of each engine of the family uses the same top end component

package designed in the first step; and

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wherein the plurality of recreational vehicle types encompasses at least two from a group comprising snowmobiles, all terrain vehicles, go carts, personal watercraft, boats with

outboard motors, boats with inboard engines, motorcycles, scooters, and light aircraft; and

the two engines, with different configurations, are each constructed and arranged to

power one of the at least two different recreational vehicle types from the plurality of

recreational vehicle types.

(Original) A method for manufacturing a family of recreational vehicles as in claim 58.

57, wherein all of the engines of the family are overhead valve, four-stroke engines and the

step for designing the top end component package includes designing the following

components of the top end package:

at least one exhaust valve, valve seat, valve guide, valve stem seal, valve spring, valve

spring retainer and exhaust valve rocker arm; and

at least one intake valve, valve seat, valve guide, valve stem seal, valve spring, valve

spring retainer and intake valve rocker arm.

(Original) A method for manufacturing a family of recreational vehicles as in claim 59.

58, wherein the step for designing the top end component package includes designing the

further following components of the top end package:

a piston pin;

a small end rod bearing;

a big end rod bearing;

a set of piston rings;

a pair of connecting rod bolts;

a cam chain tensioner;

an exhaust valve hydraulic tappet for each exhaust valve; and

an intake valve hydraulic tappet for each intake valve.

60. (Original) A method for manufacturing a family of recreational vehicles as in claim 59, wherein the step for designing the top end component package includes designing the further following components of the top end package:

a piston; and

a connecting rod.

61. (Original) A method for manufacturing a family of recreational vehicles as in claim 60, wherein the step for designing the top end component package includes designing the further following components of the top end package:

a cylinder head; and

a camshaft.

62. (Original) A method for manufacturing a family of recreational vehicles as in claim 61, wherein the step for designing the top end component package includes designing:

at least one rocker arm shaft.

63. (Original) A method for manufacturing a family of recreational vehicles as in claim 57, wherein the step for designing the single cylinder engine and at least two multiple cylinder engines includes designing at least one of the following engine configurations:

a V-twin, an inline twin, and an inline three.

64. (Original) A method for manufacturing a family of recreational vehicles as in claim 63, wherein the step for designing the single cylinder engine and at least two multiple cylinder engines includes further designing at least one of the following engine configurations:

a V-six, a V-four, and an inline four.

(Currently Amended) A method for reducing a number of unique components 65. required for manufacturing a family of recreational vehicles sharing a family of internal combustion engines, comprising:

designing a single top end component package; and

designing a single cylinder engine and at least one multiple cylinder engine with a configuration selected from a group comprising V-type, inline, opposed, square, w-type and radial;

wherein each cylinder of each engine of the family uses the same top end component package designed in the first step and each component in the top end component package is designed to comply with the strictest performance requirement for that component in any application utilizing one of the family of engines; and

wherein the plurality of recreational vehicle types encompasses at least two from a group comprising snowmobiles, all terrain vehicles, go carts, personal watercraft, boats with outboard motors, boats with inboard engines, motorcycles, scooters, and light aircraft; and

at least two of the engines, with different configurations, are each constructed and arranged to power one of the at least two different recreational vehicle types from the plurality of recreational vehicle types.

(Original) A method as in claim 65, wherein all of the engines of the family are 66. overhead valve, four-stroke engines and the step for designing the top end component package includes designing the following components of the top end package:

at least one exhaust valve, valve seat, valve guide, valve stem seal, valve spring, valve spring retainer and exhaust valve rocker arm; and

at least one intake valve, valve seat, valve guide, valve stem seal, valve spring, valve spring retainer and intake valve rocker arm.

(Original) A method as in claim 66, wherein the step for designing the top end 67. component package includes designing the further following components of the top end package:

a piston pin;

a small end rod bearing;

a big end rod bearing;

a set of piston rings;

a pair of connecting rod bolts;

a cam chain tensioner;

an exhaust valve hydraulic tappet for each exhaust valve; and

an intake valve hydraulic tappet for each intake valve.

68. (Original) A method as in claim 67, wherein the step for designing the top end component package includes designing the further following components of the top end package:

a piston; and

a connecting rod.

69. (Original) A method as in claim 68, wherein the step for designing the top end component package includes designing the further following components of the top end package:

a cylinder head; and

a camshaft.

70. (Original) A method as in claim 69, wherein the step for designing the top end component package includes designing:

at least one rocker arm shaft.

71. (Original) A method as in claim 65, wherein the step for designing the single cylinder engine and at least two multiple cylinder engines includes designing at least one of the following engine configurations:

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a V-twin, an inline twin, and an inline three.

72. (Original) A method as in claim 71, wherein the step for designing the single cylinder

engine and at least two multiple cylinder engines includes further designing at least one of the

following engine configurations:

a V-six, a V-four, and an inline four.